

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/386,591DATE: 09/15/1999
TIME: 12:41:20

INPUT SET: S33339.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANT: Needleman, Philip
6 Glenn, Kevin
7
8 (ii) TITLE OF INVENTION: An Immunological Process and Constructs
9 for Increasing the HDL Cholesterol Concentration by DNA
10 Vaccination
11
12 (iii) NUMBER OF SEQUENCES: 52
13
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Welsh & Katz, Ltd.
16 (B) STREET: 120 South Riverside Plaza, 22nd Floor
17 (C) CITY: Chicago
18 (D) STATE: IL
19 (E) COUNTRY: USA
20 (F) ZIP: 60606
21
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
27
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER:
30 (B) FILING DATE:
31 (C) CLASSIFICATION:
32
33 (viii) ATTORNEY/AGENT INFORMATION:
34 (A) NAME: Gamson Ph.D., Edward P.
35 (B) REGISTRATION NUMBER: 29,381
36 (C) REFERENCE/DOCKET NUMBER: MON-103.0 6221/69666
37
38 (ix) TELECOMMUNICATION INFORMATION:
39 (A) TELEPHONE: (312)655-1500
40 (B) TELEFAX: (312)655-1501
41
42
43 (2) INFORMATION FOR SEQ ID NO:1:
44
45 (i) SEQUENCE CHARACTERISTICS:
46 (A) LENGTH: 1431 base pairs

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47 (B) TYPE: nucleic acid
48 (C) STRANDEDNESS: single
49 (D) TOPOLOGY: linear
50
51 (ii) MOLECULE TYPE: DNA (genomic)
52
53
54 (viii) POSITION IN GENOME:
55 (C) UNITS: bp
56
57
58 (x) PUBLICATION INFORMATION:
59 (A) AUTHORS: Drayna, Dennis
60 Jarnagin, Alisha Stephens
61 McLean, John
62 Henzel, William
63 Kohr, William
64 Fielding, Christopher
65 Lawn, Richard
66 (B) TITLE: Cloning and sequencing of human cholesteryl
67 ester transfer protein cDNA
68 (C) JOURNAL: Nature
69 (D) VOLUME: 327
70 (F) PAGES: 632-634
71 (G) DATE: June 18-1987
72
73 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
74
75 TGCTCCAAAG GCACCTCGCA CGAGGCAGGC ATCGTGTGCC GCATCACCAA GCCTGCCCTC 60
76
77 CTGGTGTGTA ACCACGAGAC TGCCAAGGTC ATCCAGACCG CCTTCCAGCG AGCCAGCTAC 120
78
79 CCAGATATCA CGGGCGAGAA GGCCATGATG CTCCTTGGCC AAGTCAAGTA TGGGTTGCAC 180
80
81 AACATCCAGA TCAGCCACTT GTCCATCGCC AGCAGCCAGG TGGAGCTGGT GGAAGCCAAG 240
82
83 TCCATTGATG TCTCCATTCA GAACGTGTCT GTGGTCTTCA AGGGGACCCT GAAGTATGGC 300
84
85 TACACCACTG CCTGGTGGCT GGGTATTGAT CAGTCCATTG ACTTCGAGAT CGACTCTGCC 360
86
87 ATTGACCTCC AGATCAACAC ACAGCTGACC TGTGACTCTG GTAGAGTGCG GACCGATGCC 420
88
89 CCTGACTGCT ACCTGTCTTT CCATAAGCTG CTCCTGCATC TCCAAGGGGA GCGAGAGCCT 480
90
91 GGGTGGATCA AGCAGCTGTT CACAAATTTT ATCTCCTTCA CCCTGAAGCT GGTCTGAAG 540
92
93 GGACAGATCT GCAAAGAGAT CAACGTCATC TCTAACATCA TGGCCGATTT TGTCCAGACA 600
94
95 AGGGCTGCCA GCATCCTTTC AGATGGAGAC ATTGGGGTGG ACATTTCCCT GACAGGTGAT 660
96
97 CCCGTCATCA CAGCCTCCTA CCTGGAGTCC CATCACAAGG GTCATTTTCAT CTACAAGAAT 720
98
99 GTCTCAGAGG ACCTCCCCCT CCCACCTTC TCGCCACAC TGCTGGGGGA CTCCCGCATG 780

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100
101 CTGTACTTCT GGTTCCTCTGA GCGAGTCTTC CACTCGCTGG CCAAGGTAGC TTTCCAGGAT      840
102
103 GGCCGCCTCA TGCTCAGCCT GATGGGAGAC GAGTTCAAGG CAGTGCTGGA GACCTGGGGC      900
104
105 TTCAACACCA ACCAGGAAAT CTTCCAAGAG GTTGTGCGCG GCTTCCCCAG CCAGGCCCAA      960
106
107 GTCACCGTCC ACTGCCTCAA GATGCCCAAG ATCTCCTGCC AAAACAAGGG AGTCGTGGTC     1020
108
109 AATTCTTCAG TGATGGTGAA ATTCTCTTTT CCACGCCAG ACCAGCAACA TTCTGTAGCT     1080
110
111 TACACATTTG AAGAGGATAT CGTGACTACC GTCCAGGCCT CCTATTCTAA GAAAAAGCTC     1140
112
113 TTCTTAAGCC TCTTGGATTT CCAGATTACA CCAAAGACTG TTTCCAACTT GACTGAGAGC     1200
114
115 AGCTCCGAGT CCATCCAGAG CTTCTGCGAG TCAATGATCA CCGCTGTGGG CATCCCTGAG     1260
116
117 GTCATGTCTC GGCTCGAGGT AGTGTTTACA GCCCTCATGA ACAGCAAAGG CGTGAGCCTC     1320
118
119 TTCGACATCA TCAACCCTGA GATTATCACT CGAGATGGCT TCCTGCTGCT GCAGATGGAC     1380
120
121 TTTGGCTTCC CTGAGCACCT GCTGGTGGAT TTCCTCCAGA GCTTGAGCTA G              1431
122
```

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

```
138   Glu Ile Phe Gln Glu Leu Ser Arg Gly Leu Pro Thr Gly Gln Ala Gln
139     1             5             10             15
140
141   Val Ala Val His
142             20
143
```

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/386,591DATE: 09/15/1999
TIME: 12:41:21

INPUT SET: S33339.raw

153

154

155

156

157 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

158

159 Val Ala Val Thr Phe Arg Phe Pro Arg Pro Asp Gly Arg Glu Ala Val

160 1 5 10 15

161

162 Ala Tyr Arg Phe

163 20

164

165 (2) INFORMATION FOR SEQ ID NO:4:

166

167 (i) SEQUENCE CHARACTERISTICS:

168 (A) LENGTH: 22 amino acids

169 (B) TYPE: amino acid

170 (C) STRANDEDNESS: single

171 (D) TOPOLOGY: linear

172

173 (ii) MOLECULE TYPE: peptide

174

175

176

177

178 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

179

180 Leu Leu Leu Gln Met Asp Phe Gly Phe Pro Lys His Leu Leu Val Asp

181 1 5 10 15

182

183 Phe Leu Gln Ser Leu Ser

184 20

185

186 (2) INFORMATION FOR SEQ ID NO:5:

187

188 (i) SEQUENCE CHARACTERISTICS:

189 (A) LENGTH: 20 amino acids

190 (B) TYPE: amino acid

191 (C) STRANDEDNESS: single

192 (D) TOPOLOGY: linear

193

194 (ii) MOLECULE TYPE: peptide

195

196

197

198

199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

200

201 Thr Thr Val Gln Ala Ser Tyr Ser Gln Lys Lys Leu Phe Leu His Leu

202 1 5 10 15

203

204 Leu Asp Phe Gln

205 20

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/386,591DATE: 09/15/1999
TIME: 12:41:21

INPUT SET: S33339.raw

206
207 (2) INFORMATION FOR SEQ ID NO:6:
208
209 (i) SEQUENCE CHARACTERISTICS:
210 (A) LENGTH: 20 amino acids
211 (B) TYPE: amino acid
212 (C) STRANDEDNESS: single
213 (D) TOPOLOGY: linear
214
215 (ii) MOLECULE TYPE: peptide
216
217
218
219
220 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
221
222 Leu Leu Leu His Leu Gln Gly Glu Arg Glu Pro Gly Trp Leu Lys Gln
223 1 5 10 15
224
225 Leu Phe Thr Asn
226 20
227
228 (2) INFORMATION FOR SEQ ID NO:7:
229
230 (i) SEQUENCE CHARACTERISTICS:
231 (A) LENGTH: 20 amino acids
232 (B) TYPE: amino acid
233 (C) STRANDEDNESS: single
234 (D) TOPOLOGY: linear
235
236 (ii) MOLECULE TYPE: peptide
237
238
239
240
241 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
242
243 Asp Val Ser Gly Glu Arg Ala Val Met Leu Leu Gly Arg Val Lys Tyr
244 1 5 10 15
245
246 Gly Leu His Asn
247 20
248
249 (2) INFORMATION FOR SEQ ID NO:8:
250
251 (i) SEQUENCE CHARACTERISTICS:
252 (A) LENGTH: 20 amino acids
253 (B) TYPE: amino acid
254 (C) STRANDEDNESS: single
255 (D) TOPOLOGY: linear
256
257 (ii) MOLECULE TYPE: peptide
258

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/09/386,591*

DATE: 09/15/1999
TIME: 12:41:21

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Line

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Original Text